

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claim 1 (original): A vascular embolization system for treating a defect in a blood vessel comprising:

a catheter having a proximal section, a distal section and an outer wall defining a lumen therethrough;

a push rod slidably disposed within the lumen of said catheter having a proximal end and a distal end; and,

an embolization device comprising an elongated helical coil formed into a secondary helical configuration and a cylindrical foam sleeve disposed about said coil, said cylindrical foam sleeve having a hydrated normal expanded diameter and a smaller constrained diameter such that when unconstrained and hydrated said cylindrical foam sleeve returns to the normal expanded diameter;

said embolization device being disposed within the lumen at the distal section of said catheter, the distal end of the push rod engages the embolization device such that distal movement of the push rod causes the embolization device to exit the lumen of the catheter at a pre-selected position within the blood vessel.

Claim 2 (original): A vascular embolization system as defined in Claim 1, wherein said embolization device is comprised of a radiopaque material.

Claim 3 (original): A vascular embolization system as defined in Claim 1, wherein said embolization device is comprised of a therapeutic agent.

Claim 4 (original): A vascular embolization system as defined in Claim 1, wherein said cylindrical foam sleeve has a larger normal expanded diameter than a diameter of the lumen of said catheter.

Claim 5 (original): A vascular embolization system as defined in Claim 1, wherein said cylindrical foam sleeve has a smaller normal expanded diameter than an outer diameter of said catheter.

Claim 6 (original): A vascular embolization system as defined in Claim 5, wherein said cylindrical foam sleeve is a moldable foam material that is bonded to the coil.

Claim 7 (original): A vascular embolization system as defined in Claim 6, wherein said coil comprises a lumen and said cylindrical foam sleeve is impregnated in said coil and extends into the lumen of said coil.

Claim 8 (original): A vascular embolization system as defined in Claim 1, wherein said cylindrical foam sleeve is a hydrogel.

Claim 9 (original): A vascular embolization system as defined in Claim 1, wherein said embolization device includes a reinforcing material.

Claim 10 (original): A vascular embolization system as defined in Claim 9, wherein said reinforcing material is at least one fiber.

Claim 11 (currently amended): A vascular embolization system for treating a defect in a blood vessel comprising:

a catheter having a proximal section, a distal section and an outer wall defining a lumen therethrough;

a push rod slidably disposed within the lumen of said catheter having a proximal end and a distal end; and,

an embolization device comprising an elongated coil and a cylindrical foam sleeve disposed about substantially the entire length of said coil, said cylindrical foam sleeve having a hydrated normal expanded diameter and a smaller constrained diameter such that when unconstrained and hydrated said cylindrical foam sleeve returns to the normal expanded diameter and wherein said cylindrical foam sleeve has a smaller normal expanded diameter than an outer diameter of said catheter;

said embolization device being disposed within the lumen at the distal section of said catheter, the distal end of the push rod engages the embolization device such that distal movement of the push rod causes the embolization device to exit the lumen of the catheter at a pre-selected position within the blood vessel.

Claim 12 (original): A vascular embolization system as defined in Claim 11, wherein said embolization device takes a convoluted shape.

Claim 13 (original): A vascular embolization system as defined in Claim 11, wherein said embolization device is comprised of a radiopaque material.

Claim 14 (original): A vascular embolization system as defined in Claim 11, wherein said embolization device is comprised of a therapeutic agent.